

W/723,473

FILE 'HOME' ENTERED AT 18:05:45 ON 10 SEP 2006

=> file biosis medline caplus wpids uspatfull
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FILE 'CAPLUS' ENTERED AT 18:07:25 ON 10 SEP 2006
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*** YOU HAVE NEW MAIL ***

=> s dithiobenzyl
L1 188 DITHIOBENZYL

=> s 15 and hydrophobic (3a) polymer?
L5 NOT FOUND
The L-number entered could not be found. To see the definition
of L-numbers, enter DISPLAY HISTORY at an arrow prompt (=>).

=> s 11 and hydrophobic (3a) polymer?
L2 0 L1 AND HYDROPHOBIC (3A) POLYMER?

=> s 11 and hydrophilic (3a) polymer?
L3 30 L1 AND HYDROPHILIC (3A) POLYMER?

=> s 13 and amine
L4 28 L3 AND AMINE

=> dup rem 14
PROCESSING COMPLETED FOR L4
L5 22 DUP REM L4 (6 DUPLICATES REMOVED)

=> s 15 and polypeptide
L6 10 L5 AND POLYPEPTIDE

=> d 16 bib abs 1-10

L6 ANSWER 1 OF 10 USPATFULL on STN
AN 2006:93355 USPATFULL
TI Lipopolymer conjugates
IN Zalipsky, Samuel, Redwood City, CA, UNITED STATES
PI US 2006079486 A1 20060413
AI US 2005-245673 A1 20051007 (11)
PRAI US 2004-617585P 20041008 (60)
DT Utility
FS APPLICATION
LREP PERKINS COIE LLP, P.O. BOX 2168, MENLO PARK, CA, 94026, US
CLMN Number of Claims: 24
ECL Exemplary Claim: 1

DRWN 2 Drawing Page(s)

LN.CNT 766

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Conjugates of formula I, below, are useful in biomedicinal applications such as delivery of drugs or labeling moieties or as components of liposomes or micelles. In formula I, A is a hydrophilic polymer, each of L and L' is independently a linker group, B is a lipid moiety; and Z is a diagnostic ligand, a biologically relevant ligand, or a reactive linking moiety, which is generally linked to the phosphorus atom of the conjugate via a nitrogen, oxygen or sulfur atom in Z. ##STR1##

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 2 OF 10 USPATFULL on STN

AN 2006:68015 USPATFULL

TI Endogenously-formed conjugate of albumin

IN Hutchins, Maria U., Mountain View, CA, UNITED STATES

Kiwan, Radwan, Albany, CA, UNITED STATES

Zalipsky, Samuel, Redwood City, CA, UNITED STATES

PI US 2006058236 A1 20060316

AI US 2005-217536 A1 20050831 (11)

PRAI US 2004-607110P 20040903 (60)

DT Utility

FS APPLICATION

LREP PERKINS COIE LLP, P.O. BOX 2168, MENLO PARK, CA, 94026, US

CLMN Number of Claims: 18

ECL Exemplary Claim: 1

DRWN 28 Drawing Page(s)

LN.CNT 1244

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A conjugate formed in vivo and comprised of endogenous albumin and an amine-containing compound, such as a protein or a drug, is described. The conjugate is formed by in vivo cleavage of a polymer-dithiobenzyl-therapeutic agent conjugate to form an albumin-dithiobenzyl-therapeutic agent conjugate. The dithiol moiety of the albumin-therapeutic agent conjugate is cleaved in vivo to yield the free therapeutic agent in native form.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 3 OF 10 USPATFULL on STN

AN 2005:312098 USPATFULL

TI Conjugate having a cleavable linkage for use in a liposome

IN Zalipsky, Samuel, Redwood City, CA, UNITED STATES

Gabizon, Alberto A., Jerusalem, ISRAEL

PI US 2005271715 A1 20051208

AI US 2005-202913 A1 20050812 (11)

RLI Continuation of Ser. No. US 2002-57831, filed on 23 Jan 2002, PENDING
Continuation of Ser. No. US 2000-556610, filed on 21 Apr 2000, GRANTED,
Pat. No. US 6365179

PRAI US 1999-130897P 19990423 (60)

DT Utility

FS APPLICATION

LREP PERKINS COIE LLP, P.O. BOX 2168, MENLO PARK, CA, 94026, US

CLMN Number of Claims: 14

ECL Exemplary Claim: 1

DRWN 18 Drawing Page(s)

LN.CNT 1240

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Conjugates of a hydrophobic moiety, such as a lipid, linked through a cleavable dithiobenzyl linkage to a therapeutic agent are described. The dithiobenzyl linkage is susceptible to cleavage by mild thiolysis, resulting in release of the therapeutic agent in its

original form. The linkage is stable under nonreducing conditions. The conjugate can be incorporated into liposomes for administration in vivo and release of the therapeutic agent in response to endogenous in vivo reducing conditions or in response to administration of an exogenous reducing agent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 4 OF 10 USPATFULL on STN
AN 2005:305288 USPATFULL
TI Releasable linkage and compositions containing same
IN Zalipsky, Samuel, Redwood City, CA, UNITED STATES
Subramony, Paramjeet, Santa Clara, CA, UNITED STATES
PI US 2005265925 A1 20051201
AI US 2005-110272 A1 20050420 (11)
PRAI US 2004-564565P 20040421 (60)
DT Utility
FS APPLICATION
LREP PERKINS COIE LLP, P.O. BOX 2168, MENLO PARK, CA, 94026, US
CLMN Number of Claims: 40
ECL Exemplary Claim: 1
DRWN 4 Drawing Page(s)
LN.CNT 1134
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Conjugates comprising a lipid or a hydrophilic polymer, such as polyethyleneglycol, linked to a ligand derived from an amine- or hydroxyl-containing compound, such as a drug or protein, are stable under conditions of storage, and are cleavable under mild thiolytic conditions to regenerate the amine- or hydroxyl-containing compound in its native form, without the formation of undesirable side products.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 5 OF 10 USPATFULL on STN
AN 2005:143862 USPATFULL
TI Releasable linkage and compositions containing same
IN Zalipsky, Samuel, Redwood City, CA, UNITED STATES
PA Alza Corporation (U.S. corporation)
PI US 2005123597 A1 20050609
AI US 2005-35707 A1 20050114 (11)
RLI Continuation of Ser. No. US 2003-371169, filed on 21 Feb 2003, GRANTED, Pat. No. US 6849270 Continuation of Ser. No. US 2001-982336, filed on 15 Oct 2001, GRANTED, Pat. No. US 6605299 Continuation of Ser. No. US 2000-556056, filed on 21 Apr 2000, GRANTED, Pat. No. US 6342244
PRAI US 1999-130897P 19990423 (60)
DT Utility
FS APPLICATION
LREP PERKINS COIE LLP, P.O. BOX 2168, MENLO PARK, CA, 94026, US
CLMN Number of Claims: 45
ECL Exemplary Claim: 1-47
DRWN 16 Drawing Page(s)
LN.CNT 1599
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A compound comprised of a hydrophilic polymer covalently yet reversibly linked to a amine-containing ligand through a dithiobenzyl linkage is described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 6 OF 10 USPATFULL on STN
AN 2004:209023 USPATFULL
TI Method for treating multi-drug resistant tumors
IN Zalipsky, Samuel, Redwood City, CA, UNITED STATES

PA Gabizon, Alberto, Jerusalem, ISRAEL
PI ALZA Corporation (U.S. corporation)
AI US 2004161455 A1 20040819
RLI US 2003-714085 A1 20031114 (10)
Continuation-in-part of Ser. No. US 2002-57839, filed on 25 Jan 2002,
PENDING Continuation of Ser. No. US 2000-556610, filed on 21 Apr 2000,
GRANTED, Pat. No. US 6365179
PRAI US 2003-467070P 20030430 (60)
US 1999-130897P 19990423 (60)
DT Utility
FS APPLICATION
LREP PERKINS COIE LLP, P.O. BOX 2168, MENLO PARK, CA, 94026
CLMN Number of Claims: 10
ECL Exemplary Claim: 1
DRWN 24 Drawing Page(s)
LN.CNT 1449

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods for administering mitomycin C to a multi-drug resistant cell and for reducing the toxicity of the compound are described. In the methods, mitomycin C is provided in the form of a prodrug conjugate, where the drug is linked to a hydrophobic moiety, such as a lipid, through a cleavable dithiobenzyl linkage. The dithiobenzyl linkage is susceptible to cleavage by mild thiolysis, resulting in release of mitomycin C in its original form. The linkage is stable under nonreducing conditions. The prodrug conjugate can be incorporated into liposomes for administration in vivo and release of mitomycin C in response to endogenous in vivo reducing conditions or in response to administration of an exogenous reducing agent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 7 OF 10 USPATFULL on STN
AN 2003:299858 USPATFULL
TI Releasable linkage and compositions containing same
IN Zalipsky, Samuel, Redwood City, CA, UNITED STATES
PA Alza Corporation (U.S. corporation)
PI US 2003211079 A1 20031113
US 6849270 B2 20050201
AI US 2003-371169 A1 20030221 (10)
RLI Continuation of Ser. No. US 2001-982336, filed on 15 Oct 2001, GRANTED,
Pat. No. US 6605299 Continuation of Ser. No. US 2000-556056, filed on 21
Apr 2000, GRANTED, Pat. No. US 6342244
PRAI US 1999-130897P 19990423 (60)
DT Utility
FS APPLICATION
LREP PERKINS COIE LLP, P.O. BOX 2168, MENLO PARK, CA, 94026
CLMN Number of Claims: 47
ECL Exemplary Claim: 1
DRWN 16 Drawing Page(s)
LN.CNT 1631

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A compound comprised of a hydrophilic polymer covalently yet reversibly linked to a amine-containing ligand through a dithiobenzyl linkage is described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 8 OF 10 USPATFULL on STN
AN 2003:78108 USPATFULL
TI Conjugate having a cleavable linkage for use in a liposome
IN Zalipsky, Samuel, Redwood City, CA, UNITED STATES
Gabizon, Alberto A., Jerusalem, ISRAEL
PA Alza Corporation (U.S. corporation)
PI US 2003054028 A1 20030320

US 6984396 B2 20060110
AI US 2002-57839 A1 20020125 (10)
RLI Continuation of Ser. No. US 2000-556610, filed on 21 Apr 2000, GRANTED,
Pat. No. US 6365179
PRAI US 1999-130897P 19990423 (60)
DT Utility
FS APPLICATION
LREP PERKINS COIE LLP, P.O. BOX 2168, MENLO PARK, CA, 94026
CLMN Number of Claims: 42
ECL Exemplary Claim: 1
DRWN 18 Drawing Page(s)
LN.CNT 1366

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Conjugates of a hydrophobic moiety, such as a lipid, linked through a cleavable dithiobenzyl linkage to a therapeutic agent are described. The dithiobenzyl linkage is susceptible to cleavage by mild thiolysis, resulting in release of the therapeutic agent in its original form. The linkage is stable under nonreducing conditions. The conjugate can be incorporated into liposomes for administration in vivo and release of the therapeutic agent in response to endogeneous in vivo reducing conditions or in response to administration of an exogeneous reducing agent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 9 OF 10 USPATFULL on STN
AN 2002:235998 USPATFULL
TI Releasable linkage and compositions containing same
IN Zalipsky, Samuel, Redwood City, CA, UNITED STATES
PA Alza Corporation (U.S. corporation)
PI US 2002128195 A1 20020912
US 6605299 B2 20030812
AI US 2001-982336 A1 20011015 (9)
RLI Continuation of Ser. No. US 2000-556056, filed on 21 Apr 2000, GRANTED,
Pat. No. US 6342244
PRAI US 1999-130897P 19990423 (60)
DT Utility
FS APPLICATION
LREP PERKINS COIE LLP, P.O. BOX 2168, MENLO PARK, CA, 94026
CLMN Number of Claims: 47
ECL Exemplary Claim: 1
DRWN 16 Drawing Page(s)
LN.CNT 1619

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A compound comprised of a hydrophilic polymer covalently yet reversibly linked to a amine-containing ligand through a dithiobenzyl linkage is described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 10 OF 10 USPATFULL on STN
AN 2002:69623 USPATFULL
TI Conjugate having a cleavable linkage for use in a liposome
IN Zalipsky, Samuel, Redwood City, CA, United States
Gabizon, Alberto A., Jerusalem, ISRAEL
PA ALZA Corporation, Mountain View, CA, United States (U.S. corporation)
PI US 6365179 B1 20020402
AI US 2000-556610 20000421 (9)
PRAI US 1999-130897P 19990423 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Riley, Jezia
LREP Simboli, Paul B., Mohr, Judy M.
CLMN Number of Claims: 42

ECL Exemplary Claim: 1
DRWN 25 Drawing Figure(s); 18 Drawing Page(s)
LN.CNT 1360

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Conjugates of a hydrophobic moiety, such as a lipid, linked through a cleavable dithiobenzyl linkage to a therapeutic agent are described. The dithiobenzyl linkage is susceptible to cleavage by mild thiolysis, resulting in release of the therapeutic agent in its original form. The linkage is stable under nonreducing conditions. The conjugate can be incorporated into liposomes for administration *in vivo* and release of the therapeutic agent in response to endogenous *in vivo* reducing conditions or in response to administration of an exogenous reducing agent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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(FILE 'HOME' ENTERED AT 18:05:45 ON 10 SEP 2006)

FILE 'BIOSIS, MEDLINE, CAPLUS, WPIDS, USPATFULL' ENTERED AT 18:07:25 ON
10 SEP 2006

L1 188 S DITHIOBENZYL
L2 0 S L1 AND HYDROPHOLIC (3A) POLYMER?
L3 30 S L1 AND HYDROPHILIC (3A) POLYMER?
L4 28 S L3 AND AMINE
L5 22 DUP REM L4 (6 DUPLICATES REMOVED)
L6 10 S L5 AND POLYPEPTIDE

=> d his

(FILE 'HOME' ENTERED AT 18:05:45 ON 10 SEP 2006)

FILE 'BIOSIS, MEDLINE, CAPLUS, WPIDS, USPATFULL' ENTERED AT 18:07:25 ON
10 SEP 2006

L1 188 S DITHIOPHENYL
L2 0 S L1 AND HYDROPHOLIC (3A) POLYMER?
L3 30 S L1 AND HYDROPHILIC (3A) POLYMER?
L4 28 S L3 AND AMINE
L5 22 DUP REM L4 (6 DUPLICATES REMOVED)
L6 10 S L5 AND POLYPEPTIDE

=> s l3 and hydroxy?
L7 24 L3 AND HYDROXY?

=> s l7 not 16
L8 14 L7 NOT L6

=> dup rem 18
PROCESSING COMPLETED FOR L8
L9 10 DUP REM L8 (4 DUPLICATES REMOVED)

=> d 19 bib abs 1-10

L9 ANSWER 1 OF 10 USPATFULL on STN
AN 2006:130804 USPATFULL
TI Lyophilized liposome formulations and method
IN Wong, Harry, Palo Alto, CA, UNITED STATES
Zhang, Yuanpeng, Cupertino, CA, UNITED STATES
Huang, Anthony Hei-Leung, Saratoga, CA, UNITED STATES
PI US 2006110441 A1 20060525
AI US 2005-261983 A1 20051028 (11)
PRAI US 2004-623393P 20041028 (60)
DT Utility
FS APPLICATION
LREP PERKINS COIE LLP, P.O. BOX 2168, MENLO PARK, CA, 94026, US
CLMN Number of Claims: 18
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1046
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Formulations and methods for preparing a lyophilized composition comprising liposomes comprised of an unsaturated lipid and a hydrophobic drug associated with the liposome, and a cryoprotectant in a solution at a selected concentration. The phase transition temperature of the lipid is greater than the freezing point of the solution at the selected concentration.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 1
AN 2005:490279 CAPLUS
DN 143:39153
TI Gene delivery mediated by liposome-DNA complex with cleavable PEG surface modification
IN Huang, Shi-Kun; Zalipsky, Samuel
PA Alza Corporation, USA
SO PCT Int. Appl., 61 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 10

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005051351	A2	20050609	WO 2004-US41170	20041119
	WO 2005051351	A3	20050714		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2546616	AA	20050609	CA 2004-2546616	20041119
	EP 1691780	A2	20060823	EP 2004-813485	20041119
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR, IS, YU				
PRAI	US 2003-524172P	P	20031121		
	WO 2004-US41170	W	20041119		
OS	MARPAT 143:39153				
AB	A liposome composition and method for delivery of a nucleic acid in vivo or ex vivo is described. The liposomes in the composition are comprised of (i) a cationic lipid and (ii) a lipid joined to a hydrophilic polymer by a releasable linkage. The liposomes are associated with a nucleic acid for delivery to a cell. Thus, conjugates of methoxy-terminated polyethylene glycol with distearoylphosphatidylethanolamine are prepared without any cleavable linker (mPEG-DSPE), with a dithiobenzyl linker (PEG-H-DTB-DSPE), or with a sterically hindered DTB linker (PEG-Me-DTB-DSPE). Luciferase transfection efficiency with liposomes in BHK cell culture is decreased with the inclusion of mPEG-DSPE in the complexes, but at least partially restored when cleavable PEG-lipids are used. PEG-H-DTB-DSPE allowed transfection efficiencies 2.5-8-fold higher than the corresponding non-cleavable PEG formulation and nearly 1.5-fold greater than the corresponding PEG-Me-DTB-DSPE formation.				
L9	ANSWER 3 OF 10 USPATFULL on STN				
AN	2005:220609 USPATFULL				
TI	Liposome composition for delivery of therapeutic agents				
IN	Zalipsky, Samuel, Redwood City, CA, UNITED STATES Zhang, Weiming, San Francisco, CA, UNITED STATES Huang, Kew Shi Kun, Castro Valley, CA, UNITED STATES				
PI	US 2005191344	A1	20050901		
AI	US 2005-36523	A1	20050113 (11)		
PRAI	US 2004-513864P		20040115 (60)		
DT	Utility				
FS	APPLICATION				
LREP	PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US				
CLMN	Number of Claims: 24				
ECL	Exemplary Claim: 1				
DRWN	3 Drawing Page(s)				
LN.CNT	1673				
CAS INDEXING IS AVAILABLE FOR THIS PATENT.					
AB	A neutral cationic lipid and liposomes prepared from the neutral cationic lipid are described. Liposomes comprised of the lipid are suitable for delivery of a polyanionic compound, such as a nucleic acid. The delivery can be performed in vivo or ex vivo. The neutral cationic lipid, which is neutral in charge at physiologic pH and positively charged at pH values less than physiologic pH, contains a polar head group that imparts solubility of the lipid and permits its packing into a liposomal lipid bilayer.				

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 4 OF 10 USPATFULL on STN
AN 2005:202265 USPATFULL
TI Preparation of lipid particles
IN Zhang, Yuanpeng, Cupertino, CA, UNITED STATES
PI US 2005175683 A1 20050811
AI US 2004-970861 A1 20041022 (10)
PRAI US 2003-514451P 20031024 (60)
DT Utility
FS APPLICATION
LREP PHILIP S. JOHNSON, JOHNSON & JOHNSON, ONE JOHNSON & JOHNSON PLAZA, NEW BRUNSWICK, NJ, 08933-7003, US
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 3 Drawing Page(s)
LN.CNT 1584

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for preparing lipid particles comprising producing discrete droplets of vesicle-forming lipids in a solvent, where the droplets have a diameter and a volume, introducing the discrete droplets into an aqueous solution to form lipid particles suitable for in vivo administration. The droplet may further contain any one or more of oils, surfactants, targeting ligands, markers, or therapeutic and diagnostic agents. The droplets may be generated by a system selected from a nebulizer, an atomizer, a venturi mist generator, a focused acoustic ejector, and an electrospray device. This method can be used to select or regulate the size and/or size distribution of the lipid particles.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 5 OF 10 USPATFULL on STN
AN 2005:196366 USPATFULL
TI Gene delivery mediated by liposome-DNA complex with cleavable PEG surface modification
IN Huang, Shi-Kun, Castro Valley, CA, UNITED STATES
Zalipsky, Samuel, Redwood City, CA, UNITED STATES
PI US 2005170508 A1 20050804
AI US 2004-993798 A1 20041119 (10)
RLI Continuation-in-part of Ser. No. US 2003-371169, filed on 21 Feb 2003, GRANTED, Pat. No. US 6849270 Continuation of Ser. No. US 2001-982336, filed on 15 Oct 2001, GRANTED, Pat. No. US 6605299 Continuation of Ser. No. US 2000-556056, filed on 21 Apr 2000, GRANTED, Pat. No. US 6342244 Continuation-in-part of Ser. No. US 2000-685940, filed on 10 Oct 2000, PENDING
PRAI US 2003-524172P 20031121 (60)
US 1999-130897P 19990423 (60)
US 1999-158693P 19991008 (60)
DT Utility
FS APPLICATION
LREP PERKINS COIE LLP, P.O. BOX 2168, MENLO PARK, CA, 94026, US
CLMN Number of Claims: 34
ECL Exemplary Claim: 1
DRWN 13 Drawing Page(s)
LN.CNT 1619

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A liposome composition and method for delivery of a nucleic acid in vivo or ex vivo is described. The liposomes in the composition are comprised of (i) a cationic lipid and (ii) a lipid joined to a hydrophilic polymer by a releasable linkage. The liposomes are associated with a nucleic acid for delivery to a cell.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 2
 AN 2004:905357 CAPLUS
 DN 141:384303
 TI Conjugates containing releasable linkage and pharmaceutical compositions containing the same
 IN Zalipsky, Samuel; Kiwan, Radwan
 PA Alza Corporation, USA
 SO U.S. Pat. Appl. Publ., 56 pp., Cont.-in-part of U.S. Ser. No. 371,169.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 10

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	US 2004213759	A1	20041028	US 2003-723473	20031126	
	US 6342244	B1	20020129	US 2000-556056	20000421	
	EP 1579874	A2	20050928	EP 2005-8357	20000421	
	EP 1579874	A3	20060125			
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY					
	US 2002128195	A1	20020912	US 2001-982336	20011015	
	US 6605299	B2	20030812			
	US 2003211079	A1	20031113	US 2003-371169	20030221	
	US 6849270	B2	20050201			
	AU 2004294350	A1	20050616	AU 2004-294350	20041124	
CA 2547255	AA	20050616	CA 2004-2547255	20041124		
WO 2005053749	A2	20050616	WO 2004-US41348	20041124		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW						
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG						
US 2005123597	A1	20050609	US 2005-35707	20050114		
US 2005271715	A1	20051208	US 2005-202913	20050812		
PRAI	US 1999-130897P	P	19990423			
	US 2000-556056	A1	20000421			
	US 2001-982336	A1	20011015			
	US 2003-371169	A2	20030221			
	EP 2000-928321	A3	20000421			
	US 2000-556610	A1	20000421			
	US 2002-57831	A1	20020123			
	US 2003-723473	A	20031126			
WO 2004-US41348	W	20041124				

AB A conjugate comprised of a hydrophilic polymer covalently yet reversibly linked to a amine-, hydroxy- or carboxyl-containing ligand is described. The resulting conjugate is capable of releasing the parent amine, hydroxy, or carboxyl-containing compound via thiol-mediated cleavage. The system allows for delivery of various amino-, hydroxy-, or carboxy-containing drugs in the form of their thiolytically cleavable macromol. conjugates. For example, the prodrug conjugate of mPEG dithiobenzyl nitrophenyl chloroformate with lysozyme was prepared and was found to release the active enzyme by cysteine.

L9 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 3
 AN 2003:118404 CAPLUS
 DN 138:158765

TI Liposome composition for delivery of nucleic acid
 IN Huang, Shi-kun; Zalipsky, Samuel; Zhang, Wei-ming
 PA Alza Corporation, USA
 SO U.S. Pat. Appl. Publ., 34 pp., Cont.-in-part of U. S. 6,342,244.
 CODEN: USXXCO

DT Patent
 LA English

FAN.CNT 10

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003031704	A1	20030213	US 2001-20671	20011212
	US 6342244	B1	20020129	US 2000-556056	20000421
	EP 1579874	A2	20050928	EP 2005-8357	20000421
	EP 1579874	A3	20060125		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
	US 6974589	B1	20051213	US 2000-685940	20001010
	CA 2468627	AA	20030703	CA 2002-2468627	20021205
	WO 2003053409	A1	20030703	WO 2002-US41461	20021205
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2002359859	A1	20030709	AU 2002-359859	20021205
	EP 1465599	A1	20041013	EP 2002-794425	20021205
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
	CN 1617710	A	20050518	CN 2002-824903	20021205
	JP 2005514392	T2	20050519	JP 2003-554168	20021205
	US 2004166150	A1	20040826	US 2004-786747	20040225
	US 2005260261	A1	20051124	US 2005-133879	20050519
	US 2005271715	A1	20051208	US 2005-202913	20050812
PRAI	US 1999-130897P	P	19990423		
	US 1999-158693P	P	19991008		
	US 2000-556056	A2	20000421		
	US 2000-685940	A2	20001010		
	EP 2000-928321	A3	20000421		
	US 2000-556610	A1	20000421		
	US 2000-680614	A1	20001006		
	US 2001-294011P	P	20010529		
	US 2001-20671	A	20011212		
	US 2002-57831	A1	20020123		
	US 2002-161420	B1	20020528		
	WO 2002-US41461	W	20021205		

OS MARPAT 138:158765

AB A liposome composition for delivery of a nucleic acid in vivo or ex vivo is described. The liposomes in the composition are comprised of (i) a lipid that is neutral in charge at physiol. pH and pos. charged at pH values less than physiol. pH and (ii) a lipid joined to a hydrophilic polymer by a dithiobenzyl linkage. The liposomes are associated with a nucleic acid for delivery to a cell.

L9 ANSWER 8 OF 10 USPATFULL on STN

AN 2002:336918 USPATFULL

TI Liposome composition for improved intracellular delivery of a therapeutic agent

IN Zalipsky, Samuel, Redwood City, CA, UNITED STATES
Allen, Theresa M., Edmonton, CANADA

PI Huang, Shi Kun, Castro Valley, CA, UNITED STATES
 US 2002192275 A1 20021219
 AI US 2002-108154 A1 20020326 (10)
 PRAI US 2001-278869P 20010326 (60)
 DT Utility
 FS APPLICATION
 LREP ALZA CORPORATION, P O BOX 7210, INTELLECTUAL PROPERTY DEPARTMENT,
 MOUNTAIN VIEW, CA, 940397210
 CLMN Number of Claims: 29
 ECL Exemplary Claim: 1
 DRWN 9 Drawing Page(s)
 LN.CNT 1652
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB A liposomal composition and a method of using the same for achieving intracellular delivery of a liposome-entrapped agent is described. The liposomes are composed of a pH sensitive lipid and include a targeting ligand to direct the liposomes to a target cell. The liposomes also include a stabilizing component, such a polymer-derivatized lipid, where the polymer is attached to the lipid by a releasable linkage. Administration of the liposomes results in cellular internalization and destabilization of the liposome for intracellular delivery of the entrapped agent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 9 OF 10 USPATFULL on STN
 AN 2002:19081 USPATFULL
 TI Releasable linkage and compositions containing same
 IN Zalipsky, Samuel, Redwood City, CA, United States
 PA Alza Corporation, Mountain View, CA, United States (U.S. corporation)
 PI US 6342244 B1 20020129
 AI US 2000-556056 20000421 (9)
 PRAI US 1999-130897P 19990423 (60)
 DT Utility
 FS GRANTED
 EXNAM Primary Examiner: Riley, Jezia
 LREP Mohr, Judy M., Mahoney, Jacqueline F., Simboli, Paul B.
 CLMN Number of Claims: 47
 ECL Exemplary Claim: 1
 DRWN 23 Drawing Figure(s); 16 Drawing Page(s)
 LN.CNT 1629
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB A compound comprised of a hydrophilic polymer covalently yet reversibly linked to a amine-containing ligand through a dithiobenzyl linkage is described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 4
 AN 2000:772486 CAPLUS
 DN 133:340247
 TI Releasable linkage and compositions containing same
 IN Zalipsky, Samuel
 PA Alza Corporation, USA
 SO PCT Int. Appl., 63 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 10

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2000064483	A2	20001102	WO 2000-US10830	20000421
WO 2000064483	A3	20010802		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR,

CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU,
 ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,
 LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,
 SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
 DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
 CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 CA 2368793 AA 20001102 CA 2000-2368793 20000421
 AU 2000043672 A5 20001110 AU 2000-43672 20000421
 AU 770390 B2 20040219
 EP 1173221 A2 20020123 EP 2000-923572 20000421
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO
 JP 2002542386 T2 20021210 JP 2000-613473 20000421
 NZ 514990 A 20040130 NZ 2000-514990 20000421
 EP 1579874 A2 20050928 EP 2005-8357 20000421
 EP 1579874 A3 20060125
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, FI, CY
 NO 2001005169 A 20011219 NO 2001-5169 20011023
 ZA 2001008724 A 20021023 ZA 2001-8724 20011023
 ZA 2001008726 A 20030305 ZA 2001-8726 20011023
 US 2005271715 A1 20051208 US 2005-202913 20050812
 PRAI US 1999-130897P P 19990423
 EP 2000-928321 A3 20000421
 US 2000-556610 A1 20000421
 WO 2000-US10830 W 20000421
 US 2002-57831 A1 20020123
 AB A compound comprised of a hydrophilic polymer covalently
 yet reversibly linked to an amine-containing ligand through a
 dithiobenzyl linkage is described. O- and p-methoxy polyethylene
 glycol-urethane-ethylidithiobenzyl-distearoylphosphatidyl ethanolamine were
 prepared and combined with dioleoyl phosphatidylethanolamine (DOPE) to
 obtain liposomes having an average diameter of 100 nm.

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